METHOD FOR CALCULATION A PITCH PERIOD ESTIMATION OF SPEECH SIG- NALS WITH VARIABLE STEP SIZE

Abstract

A method for calculating the pitch estimation of speech signals. The method includes the following steps: (a) Providing an initial value to a lag parameter, (b) Calculating the autocorrelation values according to the lag parameters corresponding to the autocorre- lation values, (c) Storing the lag parameter and the autocorrelation values corresponding to the lag parameters in a memory, (d) De- termining a first increment value and a second increment value, (e) Comparing the autocorrelation values and the first threshold value in the step(b), (f) Repeat the steps(b), (c), (d) and (e), (g) Comparing the plurality of the autocorrelation values stored in the memory and finding out the maximum autocorrelation values, and calculating the pitch estimation with the lag parameter corre- sponding to the maximum autocorrelation value.